

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/Back Exam - 2074, Srawan/Bhadra

Program: Diploma in Information Technology
Computer Engineering

Year/Part: II/II

Subject: **Software Engineering**

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Full Marks: 80
Pass Marks: 32
Time: 3 hrs

*Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicates full marks.*

Attempt ANY EIGHT Questions.

1. What is software? Explain about 3P and 4P model. [2+8]
2. Explain prototyping model. Write down the characteristics of a good SRS. [5+5]
3. What are SDLC models? Why do we need them? Explain about RAD model. [2+2+6]
4. What are the steps for project planning? Explain COCOMO in brief. [2+8]
5. Explain bottom-up and top-down approach strategy of software design. [10]
6. What is software metric and how can it be measured? Explain about defect density and inspection rate. [5+5]
7. Explain about the SEI CMM. [10]
8. Explain about the levels of testing. [10]
9. What is software maintenance and why is it performed? Explain about reverse engineering. [5+5]

Good Luck!

For Educational Materials

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